

We Claim:

1. A dispenser for feeding perforated towels from a continuous roll of towels, said dispenser comprising:
- 5 (a) a dispenser body for containing said continuous roll; and
 (b) an adjustable nozzle attached to said dispenser body for dispensing an end portion of said continuous roll, said nozzle including: (i) an upper blade having a first cutaway portion; (ii) a lower blade slidably nested with said upper blade, said lower blade having a second cutaway portion which aligns with said first cutaway portion to form a unitary opening; and (iii) a cam assembly positioned adjacent to one of said upper blade and said lower blade for selectively adjusting the size of said unitary opening.
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- 15 2. The dispenser of Claim 1, further including a removable slide having a locking means for selectively locking said slide to said nozzle for maintaining said unitary opening in a preset position.
- 20 3. The dispenser of Claim 2, wherein said cam assembly positioned adjacent to one of said upper blade and said lower blade for selectively adjusting the size of said unitary opening is attached to said slide whereby removing said slide removes said cam assembly and allows at least one of said upper blade and said lower blade to open to permit said continuous roll to be more easily replaced.
- 25 4. The dispenser of Claim 2, wherein said locking means includes a disengage lever having a locking tab that contacts said nozzle for maintaining said slide in a first position.
- 30 5. The dispenser of Claim 2, further including a central slot positioned within said slide for providing a passageway through which an end of continuous roll extends.

6. The dispenser of Claim 1, further including a cover positioned over said upper blade and said lower blade such that said upper blade and said lower blade are contained within said base and said slide for reducing an amount of debris which may contact said upper blade and said lower blade.

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7. The dispenser of Claim 6, wherein said cover includes a funnel extending downward toward said unitary opening for guiding said toweling into said unitary opening.

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8. An adjustable nozzle for a dispenser for feeding perforated towels from a continuous roll of towels, said dispenser comprising:

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(a) a base having a centralized opening;
(b) an upper blade having a first cutaway portion;
(c) a lower blade slidably nested with said upper blade, said lower blade having a second cutaway portion which aligns with said first cutaway portion to form a unitary opening aligned with said centralized opening;

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(d) a cam assembly blade for selectively adjusting the size of said unitary opening, said cam assembly being positioned adjacent to and contacting one of said upper blade and said lower blade; and

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(e) at least one gear connected to said base, said gear intermeshing with at least one gear rack positioned on each of said upper blade and said lower blade, said gear enabling said upper blade and said lower blade to move equidistantly and in opposite directions from each other.

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9. The dispenser of Claim 8, wherein said gear rack is positioned along an edge of each of said lower blade and said upper blade for intermeshing with at least one of said gear mounted on opposing sides of said centralized opening.

10. The dispenser of Claim 9, wherein said base includes two gears mounted on opposing sides of said centralized opening, each of said gears

intermeshing with one of said gear racks positioned on two edges of each of said upper and lower blades.

11. The dispenser of Claim 8, wherein said cam assembly positioned adjacent to one of said upper blade and lower blade includes a cam mounted on an axial key post, said cam having an indexing flat which contacts one of said upper blade and lower blade, said indexing flat having an increasing radius for adjusting the aperture size of said unitary opening by rotating said cam.

10 12. The dispenser of Claim 11, further including a biasing member extending between one of said upper blade and lower blade and said base for maintaining contact between one of said blades and said cam.

15 13. The dispenser of Claim 12, further including a cam contact point positioned on one of said upper blade and lower blade for providing a surface for contacting said cam.

20 14. The dispenser of Claim 13, wherein said biasing member is attached to said upper blade and said cam contact point is positioned on said lower blade.

15. The dispenser of Claim 8, further including an outer edge extending along three edges of said upper blade to provide for said lower blade to adjustably nest within said upper blade.

25 16. The dispenser of Claim 12, further including blade stops extending outward from one face of said base for contacting said upper blade and lower blade and controlling a maximum size of said unitary opening.

30 17. The dispenser of Claim 16, further including an outer wall extending about said base for containing said upper blade and lower blade within said base.

18. The dispenser of Claim 11, wherein one end of said axial key post includes a tool mount for allowing adjustment of said cam.

19. The dispenser of Claim 18, wherein said indexing flat includes a rotation slot for containing a pin for controlling the degree of rotation of said cam.

5 20. A dispenser for feeding perforated towels from a continuous roll of towels, said dispenser comprising:

- (a) a dispenser body for containing said continuous roll;
- (b) an adjustable nozzle attached to said dispenser body for dispensing an end portion of said continuous roll, said nozzle including: (i) a base having a centralized opening; (ii) an upper blade having a first cutaway portion; (iii) a lower blade slidably nested with said upper blade, said lower blade having a second cutaway portion which aligns with said first cutaway portion to form a unitary opening aligned with said base centralized opening; (iv) a cam assembly positioned adjacent to and engaging a contact point of one of said upper and lower blades for selectively adjusting the size of said unitary opening; and (iv) at least one gear connected to said base and intermeshing with at least one gear rack positioned on said upper and lower blades, said gear said gear enabling said upper blade and said lower blade to move equidistantly and in opposite directions from each other; and
- (c) a removable slide having a locking means for selectively locking said slide to said nozzle for maintaining said nozzle opening in a preset position.

21. The dispenser of Claim 20, wherein said cam assembly positioned adjacent to one of said upper and lower blades for selectively adjusting the size of said unitary opening is attached to said slide whereby removing said slide removes said cam assembly and allows at least one of said blades to open to permit said continuous roll to be more easily replaced.

22. The dispenser of Claim 20, wherein said locking means includes a disengage lever having a locking tab that contacts said nozzle for maintaining said slide in said first position.

5 23. The dispenser of Claim 20, further including a central slot positioned within said slide for providing a passageway for an end of said continuous roll to extend.

10 24. The dispenser of Claim 20, further including a cover positioned over said blades such that said blades are contained within said base and said slide for reducing debris which may contact said blades.

15 25. The dispenser of Claim 24, wherein said cover includes a funnel extending downward toward said unitary opening for guiding an end of said continuous roll into said unitary opening.

20 26. The dispenser of Claim 20, wherein said gear rack is positioned along at least one edge of each of said lower and upper blades for intermeshing with said at least one gear mounted on opposing sides of said centralized opening.

25 27. The dispenser of Claim 26, wherein said base includes two gears mounted on opposing sides of said centralized opening, said gears intermeshing with each of said gear racks positioned on two edges of each of said upper and lower blades.

30 28. The dispenser of Claim 20, wherein said cam assembly positioned adjacent to one of said upper and lower blades includes a cam mounted on an axial key post, said cam having an indexing flat which contacts one of said blades, said indexing flat having an increasing radius for adjusting the aperture size of said unitary opening by rotating said cam.

29. The dispenser of Claim 28, further including a biasing member extending between one of said blades and said base for maintaining contact between one of said blades and said cam.

5 30. The dispenser of Claim 29, further including a cam contact point positioned on one of said blades for providing a surface for contacting said cam.

10 31. The dispenser of Claim 30, wherein said biasing member is attached to said upper blade and said cam contact point is positioned on said lower blade.

15 32. The dispenser of Claim 20, further including an outer edge downwardly extending along three edges of said upper blade to provide for three edges of said lower blade to adjustably nest within said outer edge of said upper blade.

20 33. The dispenser of Claim 29, further including blade stops for contacting said blades and controlling the maximum size of said unitary opening, said blade stops extending outward from one face of said base.

25 34. The dispenser of Claim 33, further including an outer wall extending about said base for containing said blades within said base.

35. The dispenser of Claim 28, wherein one end of said axial key post includes a tool mount for allowing adjustment of said cam.

25 36. The dispenser of Claim 35, wherein said indexing flat includes a rotation slot for containing a pin for controlling the degree of rotation of said cam.

30 37. The dispenser of Claim 20, further including an exit funnel having an inlet end and an outlet, wherein said inlet end is removably attached to said base such that a passageway from said central opening to said outlet is provided for an end of said continuous roll.

38. The dispenser of Claim 37, wherein said outlet has a first longitudinal axis and said centralized opening has a second axis, and wherein said first axis and said second axis intersect to form an acute angle.

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39. The dispenser of ~~Claim 38~~, wherein said acute angle is about 30 degrees.

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